



**UNDP/GEF PROJECT ENTITLED “REDUCING ENVIRONMENTAL STRESS IN THE
YELLOW SEA LARGE MARINE ECOSYSTEM”**

UNDP/GEF/YS/JC.1/inf. 4
Date: 1st September 2005
English only

**Technical Meeting for the Co-operative Study Cruises
In the Yellow Sea Marine Basin
For the UNDP/GEF Yellow Sea Project
Qingdao, China, 17-18 October 2005**

**Brief Information on the Research Vessel
“Bei Dou”**

Ship Name: RV Bei Dou (“North Star”) (China)

US NODC Code: Yellow Sea Fisheries Research Institute

Contact: Prof. Qisheng Tang

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Length (M):	56.20
Range (n. mi.):	9000
Crew:	12
Beam (M):	12.5
Endurance (days):	30
Officers:	10
Draft (M):	6.50
Cruise speed (kt):	12.0
Gross Tons (mt):	1147
Max. speed (kt):	13.7
Air Cond.:	yes
Power (HP):	2250 (1685KW)
Aux. Power (HP):	700
Main vessel activity:	Fisheries

Year built:	1984
Ocean area where vessel operates:	Yellow Sea; East China Sea
Capacities and working spaces	
Dry cargo holds:	53m ³
Fuel:	300m ³
Fresh water:	60m ³
Wet laboratories (total area):	25m ²
Fish Lab (total area):	20m ²
Dry laboratories (total area):	25m ²
Fresh water generator capacity:	4m ³
Freeboard to working deck:	2.7m
Free working deck area:	60m ²
Space for container laboratory:	4m x 6m
Maximum number of Scientists:	31, all accommodation provided
Total beds:	56 (single, double, four, six)
Design Particulars	
Hull materials:	Steel
Energy sources	
Main engine(s): number:	1
Make:	Diesel
Model:	
Power (BHP) each main engine:	2250 at 825 rpm
Diameter and max. rpm propeller:	3.000m 164 rpm
Total power auxiliary diesels:	700HP
Electrical systems	
AC Voltage:	220/ 380V, total 1140kVA, 3phase, 50Hz
AC Voltage:	220/ 380V, total 560kVA, 3phase, 50Hz
DC Voltage:	0V, total 0V
Stabilized system for scientific equipment:	220VAC 10AMP 50Hz
Fixed equipment	
Navigation and communication	
Nav. equip:	Radar Loran SatNav Gyro DopLog
Comms:	Fax SatCom
Comm sat:	yes
GPS:	yes
Acoustic	
Echo-sounders for scientific research:	SIMRAD EK500/38kHz
Sonar:	Fisheries

Oceanographic	
Oceanographic winches:	number: 2
Steel wire length:	3500m, safe working load: 1tons
Conducting cable length:	0m, safe working load: 0tons
Trawl winch length:	0m, safe working load: 0tons
Gantry	
Position:	Midships
Clearance above deck:	7m and outboard extension: 6m
Safe working load at max. reach:	3tons
Crane	
Use:	for CTD with Rosette sampler
Position:	Stern, midships
Clearance above deck:	9m and outboard extension: 4m
Safe working load at max. reach:	3tons
Other winches for instruments or sampling:	2
Electronic data processing equipment permanently available on board	
Computer:	IBM 80386:
Vessel construction and maintenance supervision	
Classification Society:	DNV,CLASS A1A
Published vessel data	
Magazine:	Marine Fisheries Research
Issue:	11
Date:	01-jan-1990



View of Rear Deck

Wet Laboratory



Cruise Leader Room

